

## **NSSL Review Agenda**

**Feb 25-27, 2015**

National Severe Storms Laboratory  
National Weather Center  
120 David L. Boren Blvd  
Norman, OK

### **DAY 1: Wednesday, Feb 25, 2015**

7:00 - 7:30 Breakfast at NCED hotel with OAR AA, DAA, and Reviewers (Garden Room 1)

7:40 Reviewers meet in NCED lobby for transportation to NSSL (carpool, please)

#### ***Morning Session - Room 3910***

8:00 Welcome and Introductions (McLean)

8:15 Logistics (Rothfusz)

8:20 Overview of NOAA/OAR research (Fine)

8:35 NSSL Director's Welcome and Overview (Koch)

#### **9:40 Break**

10:00 Weather Radar Research Overview (Jain)

#### **Dual-Polarization Weather Radar Research**

10:10 New Concepts in Utilization of Polarimetric Radars (Ryzhkov)

10:25 Winter Microphysics (Reeves)

10:40 Polarimetric Radar and NWP Synergies (Snyder)

*10:55 Intermediate Q&A/Discussion Session on Dual-Pol (Jain)*

#### **11:10 Mini-Break**

11:15 Hydrometeor Classification Algorithm 2 (HCA2) (Schuur)

11:30 mPING (Elmore)

11:45 Innovative Techniques to Improve Weather Observations (Warde)

*12:00 Final Q&A/Discussion Session on Dual-Pol (Jain)*

**12:15 Working Lunch - Room 2410** (Reviewers with NSSL Management and OAR HQ)

**Early Afternoon Session - Room 3910**Weather Radar Research: MPAR

1:00 MPAR Overview - Extended Presentation (Hondl)

1:25 MPAR Engineering Research (Torres)

1:40 *Q&A/Discussion Session on MPAR (Jain)***1:55 Mini-break and Transition to Concurrent Sessions****2:00 Concurrent Sessions - Various Rooms** *(see floor plan in binder)***Reviewers-Only: Electronic Poster Session #1**

Reviewers, select four E-Posters to visit. E-Poster presentations are repeated every 15 minutes. Use the matrix below to plan the presentations you will visit (and at what time).

Location	E-Poster Presentation Title (Presenter)	Presentation Times			
		2:00	2:15	2:30	2:45
Dev Lab	SHAVE-Hydro (B. Smith)				
2nd Floor East	Advantages of Rapid-scan Phased Array Radar Data (Kuster)				
2nd Floor West	Lightning Data Assimilation (Mansell)				
HWT Southwest	Adaptive Scanning on the NWRT PAR (Priegnitz)				
HWT Northwest	Increasing the value of NEXRAD's dual-polarization upgrade by improving the quality of correlation coefficient (Ivić)				
HWT Northeast	Videosondes (Waugh)				
HWT Media	Coastal Flooding/CI-FLOW (Nemunaitis)				

**Non-Reviewer Visitors: Tour of “The Bay” (Kennedy)****NSSL/CIMMS/Ace All-Hands Meeting with Craig McLean (Room 1313)****3:00 Break**

***Late Afternoon Session - Room 3910***

3:20 MRMS and Hydrometeorological Research Overview (Jorgensen)

Multi-Radar/Multi-Sensor (MRMS) Research

3:30 MRMS and the R2O Process (Howard)

3:45 MRMS-Hydro (Zhang)

4:00 *Intermediate Q&A/Discussion Session on MRMS and Hydro (Jorgensen)*

4:10 FLASH (Gourley)

4:25 MRMS-Severe (Smith)

4:40 *Final Q&A/Discussion Session on MRMS and Hydro (Jorgensen)*

***5:00 End of Day 1 Activities for Visitors***

Reviewers' Closed Session.

Bay Tour for McLean and Fine (Kennedy)

6:30 (Optional) BBQ in NWC Atrium for reviewers, visitors, and presenters from NSSL and CIMMS.

---

**DAY 2: Thursday, Feb 26**

7:40 Reviewers meet in NCED lobby to carpool to NWC

***Morning Session - Room 3910***

8:00 Hazardous Weather Forecasts & Warnings Research: Forecasts Overview (Kain)

Hazardous Weather Forecasting Research

8:10 Process Studies of Convective Storms and their Environments (Ziegler)

8:25 Ground-Based Instrument Development & Observational Strategies (Turner)

8:40 HWT Spring Forecast Experiment History & Success (Clark)

8:55 Bridging Research & Operations: SPC Interaction & Field Experiments (Coniglio)

9:10 *Intermediate Q&A/Discussion Session on Forecasting Research (Kain)*

**9:20 Mini-Break**

9:25 Warn on Forecast - Extended Presentation (Wicker)  
 9:50 Severe Weather Climatology and Long-Term Forecasting (Brooks)

10:05 *Final Q&A/Discussion Session on Forecasting Research (Kain)*

## 10:15 Break

10:30 Hazardous Weather Forecasts & Warnings Research: Warnings Overview (Jorgensen)

### Hazardous Weather Warnings Research

10:40 HWT Experimental Warning Program History & Successes (Kingfield)

10:55 Meteorological & Warning Process Studies (Bowden/Heinselman)

11:10 FACETs (Rothfusz)

11:25 *Intermediate Q&A/Discussion Session on Warnings Research (Jorgensen)*

11:35 GOES-R R2O (Calhoun)

11:50 Lightning Research & Forecasting (MacGorman)

12:05 *Final Q&A/Discussion Session on Warnings Research (Jorgensen)*

## 12:15 Working Lunches

**Room 2410: Reviewers only** with invited NSSL/CIMMS early-career professionals.

**Room 3910:** McLean, Fine and NSSL Senior Leadership.

## 1:15 Concurrent Sessions - Various Rooms (see floor plan in binder)

### Reviewers-Only Session: Stakeholder discussions (closed session)

Time	Room 2410	Room 2440
1:15	Prep Time (all reviewers)	
1:30	Hydro: Brian Cosgrove (NWS/OHD) - {by phone}	Radar: Mike Istok (NWS/OCWWS)
1:50	Hydro: Dave Novak (NWS/WPC) - {by phone}	Radar: Mike Emanuel (FAA) - {by phone}
2:10	Modeling: Bill Lapenta (NWS/NCEP)	Radar: Terry Clark (NWS/ROC)
2:30	F&W: Russ Schneider (NWS/NCEP/SPC)	R2O: John Murphy (NWS/OS&T)
2:50	F&W: Andy Edman (NWS/WRH/SSD)	R2O: John Cortinas (OAR/OWAQ)

**Non-Reviewer Visitors' Session: Electronic Posters - Open Visitation**  
(Mingle and interact, as desired.)

**1:15 - 2:10**

- Dev Lab: SHAVE-Hydro (B. Smith)
- 2nd Floor East: Advantages of Rapid-scan Phased Array Radar Data (Kuster)
- 2nd Floor West: Lightning Data Assimilation (Mansell)
- HWT Southwest: Adaptive Scanning on the NWRT PAR (Priegnitz)
- HWT Northwest: Increasing the value of NEXRAD's dual-polarization upgrade by improving the quality of correlation coefficient (Ivić)
- HWT Northeast: Videosondes (Waugh)
- HWT Media: Coastal Flooding/CI-FLOW (Nemunaitis)

**2:15 - 3:10**

- Dev Lab: Radar Reanalysis/MYRORSS (T. Smith)
- 2nd Floor East: The FACETs PHI Tool (Karstens)
- 2nd Floor West: Severe Weather and Social Science Research (Brooks)
- HWT Southwest: PARISE (Bowden)
- HWT Northwest: PAR to the Rescue - Improving Clutter Mitigation with Adaptive Beamforming (Curtis)
- HWT Northeast: Using Bragg Scattering for ZDR Calibration (Melnikov)
- HWT Media: Latest Results of Warn-on-Forecast Research (Potvin)

**3:10 Break**

**3:30 Concurrent Sessions - Various Rooms****Reviewers-Only: Electronic Poster Session #2**

Reviewers, select four E-Posters to visit. E-Poster presentations are repeated every 15 minutes. Use the matrix below to plan the presentations you will visit (and at what time).

Location	E-Poster Presentation Title (Presenter)	Presentation Times			
		3:30	3:45	4:00	4:15
Dev Lab	Radar Reanalysis/MYRORSS (T. Smith)				
2nd Floor East	The FACETs PHI Tool (Karstens)				
2nd Floor West	2nd Floor West: Severe Weather and Social Science Research (Brooks)				
HWT Southwest	PARISE (Bowden)				
HWT Northwest	PAR to the Rescue - Improving Clutter Mitigation with Adaptive Beamforming (Curtis)				
HWT Northeast	Using Bragg Scattering for ZDR Calibration (Melnikov)				
HWT Media	Latest Results of Warn-on-Forecast Research (Potvin)				

**Non-Reviewer Visitors: Tour of PAR (meet at front door security desk)**

3:30 Leave for North Base

3:50 PAR Tour (Zahrai)

4:20 Return to NWC

**4:30 Transition Break*****Final Afternoon Session - Room 3910***

4:40 Line Office Reps Report-out to NSSL/OAR Management

5:10 End of Review for Visitors.

6:30 Reviewers' Dinner Alone (Garden Room 1 Reserved at NCED)

**DAY 3: Friday, Feb 27**

7:30 Reviewers meet in NCED lobby to carpool to **North Base** (Map/Directions provided in binder and on 2015 Lab Review website.)

**8:00 Reviewers-Only** PAR Tour

8:00 Reviewers Depart Hotel for North Base

8:20 PAR Tour (Hondl)

8:50 Depart North Base for NWC

9:15 **Reviewers-Only** Bay Tour; Meet at front door security desk (Kennedy)

***Late-Morning Session - Room 3910***

9:50 CIMMS Q&A (Peppler)

10:10 Final Q&A (Koch, Rothfusz, Division Chiefs)

10:40 Reviewer Closed Session

- Begin to write

**11:30 Lunch** (Reviewers only)

12:15 Reviewers Report-Out to OAR & NSSL Management

12:45 Final Comments (Fine, Koch and Chang)

1:00 Adjourn